

U.S. Department of Transportation

Research and Special Programs Administration 400 Seventh Street, S.W. Washington, D.C. 20590.

DOT-E 12415

EXPIRATION DATE: May 31, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. <u>GRANTEE</u>: Canberra Industries Meriden, Connecticut

2. PURPOSE AND LIMITATIONS:

- a. This exemption authorizes the manufacture, mark, sale and use of non-DOT specification containers described as hermetically-sealed electron tube devices for the transportation in commerce of the materials authorized by this exemption. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
- b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.
- 3. <u>REGULATORY SYSTEM AFFECTED</u>: 49 CFR Parts 106, 107 and 171-180.
- 4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.302 and §175.3 in that a non-DOT specification container is authorized as prescribed herein.
- 5. <u>BASIS</u>: This exemption is based on the application of Canberra Industries dated January 13, 2000 and additional information dated April 12, May 2, and May 16, 2000 submitted in accordance with § 107.105 and the public proceeding thereon.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

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Proper Shipping Name/ Hazardous Material Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Argon, compressed	2.2	UN 1006	N/A
Carbon dioxide	2.2	UN 1013	N/A
Helium, compressed	2.2	UN 1046	N/A
Neon, compressed	2.2	UN 1065	N/A
Nitrogen, compressed	2.2	UN 1066	N/A
Krypton, compressed	2.2	UN 1056	N/A
Xenon, compressed	2.2	UN 2036	N/A
Compressed gas, n.o.s. (mixtures of the gases listed above, with or without 5% or less methane)	2.2	UN 1956	N/A

7. SAFETY CONTROL MEASURES:

a. <u>PACKAGING</u> - Packagings prescribed are non-DOT specification, metal, single trip, inside containers, described as hermetically sealed electron tube radiation sensors. The radiation sensors have diameters from 0.75 inches to 2 inches, volumes from 23.2 to 173.9 cubic inches water capacity, and design (operating) pressures from 102 psig to 160 psig. Packagings must conform to the drawings on file with the Office of Exemptions and Approvals (OHMEA). Each radiation sensor is constructed and tested in accordance with Harwell Instruments Ltd. Work Instruction HIL/WI/703, on file with the OHMEA. The design burst pressure of the radiation sensor must be four times the operating pressure.

b. OPERATIONAL CONTROLS -

(1) The radiation sensor must be shipped in a strong outside packaging as described in the application for exemption, or as part of equipment.

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- (2) If repackaged, packagings used to ship larger equipment containing radiation sensors covered by this exemption must be in strong outside packagings providing equivalent protection for the devices as specified in paragraph 7.b.(1) above.
- (3) Emergency response information provided with the shipment, and available via an emergency response telephone number must indicate those receptacles that are not fitted with pressure relief devices, and provide appropriate guidance for exposure to fire.

8. <u>SPECIAL PROVISIONS</u>:

- a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this exemption for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this exemption.
- b. A person who is not a holder of this exemption, but receives a package covered by this exemption, may reoffer it for transportation provided no modifications or changes are made to the package and it is offered for transportation in conformance with this exemption and the HMR.
- c. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.
- d. Each packaging manufactured under the authority of this exemption must be either (1) marked with the <u>name of the manufacturer and location (city and state) of the facility at which it is manufactured</u> or (2) marked with a <u>registration symbol</u> designated by the Office of Hazardous Materials Exemptions and Approvals <u>for a specific manufacturing facility</u>.
- e. A current copy of this exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.
- 9. <u>MODES OF TRANSPORTATION AUTHORIZED</u>: Motor vehicle, cargo aircraft only, and passenger-carrying aircraft.

- 10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each aircraft used to transport packages covered by this exemption. The shipper must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.
- 11. <u>COMPLIANCE</u>: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 <u>et seg</u>:
 - o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
 - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued in Washington, D.C.

Robert A. McGuire

<u>JUL 3 2000</u>

(DATE)

Acting Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590. Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, S.W., Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

PO:CWF